



Curriculum Vitae

Yuliia Faiidiuk

PERSONAL



Yuliia V. Faiidiuk

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Gender F | Date of Birth 17/07/1990 | Citizenship Ukraine

Academic degree (degree, speciality)	PhD, Virology
Position	Assistant Lecturer
Department	Microbiology and Immunology
Faculty/Institute	ESC "Institute of Biology and Medicine"
Part-time position	Junior Researcher, D.K. Zabolotny Institute of Microbiology and Virology of the National Academy of Sciences of Ukraine

TEACHING:

In the current year	<p>Specialty "Biology":</p> <ol style="list-style-type: none">1. Microorganisms in current genetic engineering technologies, master, 2nd year, lectures, laboratory classes.2. Metabolism of microorganisms, master, 1st year, lectures.3. Bacterial Genetics, master, 1st year, lectures.4. Current methods in biology, master, 1st year, laboratory classes.5. Bacterial Molecular Genetics, master, 1st year, lectures, laboratory.6. Phylogenetic analysis in microbiology, bachelor, 4th year, lectures.7. Laboratory practice, bachelor, 4th year, laboratory classes.8. Microbiology, bachelor, 2nd year, laboratory classes.9. Immunology, bachelor, 2nd year, laboratory classes. <p>Specialty "Medicine":</p> <ol style="list-style-type: none">1. Microbiology, virology and immunology, master, 2nd year, lectures, practice classes.
In previous years	<p>Specialty "Biology":</p> <ol style="list-style-type: none">1. Aerobic and Anaerobic consortia: research methodology, PhD students, 2nd year, lectures, practical classes.2. Anaerobic microbial associations, master, 2nd year, lectures, laboratory classes.3. Physiology of anaerobic microorganisms, master, 2nd year, lectures, laboratory classes.4. Microbial wastewater treatment, bachelor, 4th year, lectures.

	<p>5. Physical and chemical research in immunology, bachelor, 3rd year, laboratory classes.</p> <p>Specialty "Medicine":</p> <p>1. Clinical microbiology, virology and immunology, master, 4th year, practice classes.</p>
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SCIENTIFIC AND TEACHING EXPERIENCE

Period	Description
From 2018 to the present	Position assistant lecturer
	Taras Shevchenko National University of Kyiv, ESC "Institute of Biology and Medicine", Department of Microbiology and Immunology, 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601
	Field of activity education
From 2019 to the present From 2015 till 2018	Position junior researcher
	D.K. Zabolotny Institute of Microbiology and Virology of the National Academy of Sciences of Ukraine, 154 Acad. Zabolotny Street, 03143, Kyiv, Ukraine
	Field of activity research
From 2012 till 2015	Position senior laboratory technician
	D.K. Zabolotny Institute of Microbiology and Virology of the National Academy of Sciences of Ukraine, 154 Acad. Zabolotny Street, 03143, Kyiv, Ukraine
	Field of activity research

EDUCATION AND TRAINING

Period	Description
From 2012 till 2015	D.K. Zabolotny Institute of Microbiology and Virology of the National Academy of Sciences of Ukraine, 154 Acad. Zabolotny Street, 03143, Kyiv, Ukraine
	Qualification: Ph.D. in Virology, thesis title "Polyvalency of T7-like erwinia phage FE44"
From 2010 till 2012	Taras Shevchenko National University of Kyiv, ESC "Institute of Biology and Medicine"
	Qualification: M.Sc. in Microbiology, thesis title "Characteristics of <i>Erwinia carotovora</i> subsp. <i>carotovora</i> 48A plasmid pCA25 and its transposon-containing derivatives"
From 2006 till 2010	Taras Shevchenko National University of Kyiv, Biological Faculty
	Qualification: B.Sc. in Biology, thesis title "Screening for microscopic fungi capable of endoglucanase producing among <i>Aspergillus</i> , <i>Penicillium</i> , <i>Glodadium</i> genus"

PERSONAL SKILLS AND COMPETENCES

Item	Level
Language Proficiency	
Ukrainian	Native language
English	C1
Polish	A1
Social/Communication Skills and Competences	Communication skills were acquired during the work at D.K. Zabolotny Institute of Microbiology and Virology of the NAS of Ukraine and the Department of Microbiology and Immunology of ESC "Institute of Biology and Medicine" of Taras Shevchenko National University of Kyiv
Computer Skills and Competences	Windows, Office, online tools and databases for bioinformatical analysis of nucleotide and amino acid sequences, Python (beginner).
Methodological and Technical Expertise	Microbiological, Virological Methods and Methods of Molecular Biology, Genetics, Biochemistry, Biophysics, and Bioinformatics.

Range of Professional Interests	<p>Phage-host interaction in a system of enetrobacterial strains and broad-host-range phages.</p> <p>Morphological and physiological, molecular and genetic features of <i>Podoviridae</i> phages.</p> <p>Mobile genetic elements of <i>Erwinia</i> and <i>Escherichia</i>.</p> <p>Phage and bacteria multiomics.</p> <p>Bacteriophage applications, phage therapy.</p> <p>Dynamics of bacterial motility in liquid crystals.</p>
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ADDITIONAL INFORMATION

Item	(titles of publications, presentations, projects, conferences, seminars, awards and prizes, membership in academies, professional and scientific associations, etc)
Publications	<ol style="list-style-type: none"> 1. Faidiuk Yu, Skivka L, Zelena P, Tereshchenko O, Buluy O , Pergamenshchik VM, Nazarenko V (2021) Anchoring-induced nonmonotonic velocity versus temperature dependence of motile bacteria in a lyotropic nematic liquid crystal. <i>Phys. Rev. E</i>, 104: 054603 2. Zlatohurska M., Gorb T., Romaniuk L., Korol N., Faidiuk Yu., Kropinski A.M., Kushkina A., Tovkach F. Complete genome sequence analysis of temperate <i>Erwinia</i> bacteriophages 49 and 59// <i>J Basic Microbiol.</i> – 2019. – 59(7). – 754–764. 3. Faidiuk I.V., Boyko A.A., Muchnyk F.V., Tovkach F.I. Virion morphology and structural organization of polyvalent bacteriophages TT10-27 and KEY// <i>Мікробіол. журн.</i> – 2015. – 77, № 3. – С. 28–38. 4. Kharina A., Podolich O., Faidiuk I., Zaika S., Haidak A., Kukharenko O., Zaets I., Tovkach F., Reva O., Kremenskoy M., Kozyrovska N. Temperate bacteriophages collected by outer membrane vesicles in <i>Komagataeibacter intermedius</i>// <i>J. Basic Microbiol.</i> – 2015. – 4, V.55. – P. 509–513. 5. F.I. Tovkach, T.E. Gorb, L.V. Romaniuk, A.I. Kushkina, A.N. Ostapchuk, T.V. Ivanitsa, N.A. Korol, I.V. Faidiuk. Tubular tail sheaths of <i>Erwinia carotovora</i> defective bacteriophages as potential nano-dosing tools for antibacterial substances. <i>Nanoscale systems and nanomaterials: research in Ukraine</i> (ed. by A.G. Naumovets). Kyiv, Academ-periodics. 2014: 569–574. (In Russian). 6. Faidiuk I.V., Tovkach F.I. Exclusion of polyvalent T7-like phages by prophage elements. <i>Microbiol. Zhurn.</i> 2014; 76 (5): 42–50. 7. 4. Faidiuk I.V., Tovkach F.I. Phytopathogenic bacteria phenotype conversion as a result of their lysogenisation by coliphage P1. <i>Microbiol. Zhurn.</i> 2014; 76(2): P. 59–66. 8. Faidiuk I.V. Restriction of the growth of T7-like phages by plasmid prophage P1//<i>Factors of experimental evolution of organisms: National Academy of Sciences, Institute of Molecular Biology and Genetics, Vavilov Society of Geneticists and Breeders of Ukraine</i>; ed.: V.A.Kunah (chief ed.)[et al] – K.: Vavilov Society of Geneticists and Breeders of Ukraine, 2014. – T.14. – P. 177–181. – ISSN 2219 – 3782. 9. Tovkach F.I., Faidiuk I.V., Korol N.A., Kushkina A.I., Moroz S.M., Muchnyk F.V. Electron microscopy and restriction analysis of bacteriophages isolated from quince and pear with symptoms of fire blight// <i>Microbiol. Zhurn.</i> 2013; 75(5). 67–75. (In Russian). 10. Tovkach F.I., Moroz S.M., Korol N.A., Faidiuk I.V., Kushkina A.I. Polyvalence of bacteriophages isolated from fruit trees, affected by bacterial fire blight. <i>Microbiol. Zhurn.</i> 2013; 75(2): 80–88. (In Russian).

Projects	<ol style="list-style-type: none"> 1. 2022-2023 Miniatura 6 project "Obtaining of recombinant exopolysaccharide depolymerases encoded by Erwinia amylovora phages and determination of their activity against fire blight", National Science Center of Poland, (Principal Investigator). 2. 2022-2023 SHENG-2 Project "Mechanisms of interaction between phage-derived 'dark matter' and mammalian host immunity", National Science Center of Poland, (Post-Doc). 3. 2021-2022 Research project "Polysaccharide-degrading enzymes of bacteriophages as promising tools for biological control of Erwinia amylovora, the causative agent of fire blight plant disease, Grant at the Competition of research projects (R&D) of young scientists of the National Academy of Sciences (NAS) of Ukraine (Inverstigator). 4. Research project "Dynamics of colloidal particles and bacteria in anisotropic medium" in collaboration with the Institute of Physics of NAS of Ukraine (Inverstigator).
Conferences	<ol style="list-style-type: none"> 1. IV International Scientific Conference, Microbiology and Immunology – the Development Outlook in the 21st century. September 22-23, 2022, Kyiv. 2. IUBMB–FEBS–PABMB Congress 2022, Lisbon, Portugal 9-14 July, 2022 3. Viruses of Microbes: the latest conquests. Portugal, Guimaraes, July 18–22, 2022. 4. III Young scientists conference "Youth and modern problems of microbiology and virology", 9-11 November 2021, Kyiv, Ukraine. 5. II Young scientists conference "Youth and modern problems of microbiology and virology " Kyiv, November 23-26, 2020, Ukraine. 6. 63rd International Conference for Students of Physics and Natural Sciences "Open Readings 2020", March 17–20, 2020, Vilnius, Lithuania. 7. Proceedings of the Young Scientists Conference "Youth and modern problems of microbiology and virology" International Conference, Kyiv, November 12–14, 2019, Kyiv, Ukraine. 8. 4th International Symposium on Biological Control of Bacterial Plant Diseases BIOCONTROL2019, July 9–11, 2019, Viterbo, Italy XI Parnas Conference – Young Scientists Forum "Biochemistry and Molecular Biology for Innovative Medicine", Kyiv, Ukraine, 2018 9. Viruses of Microbes 2018, EMBO Workshop, Wrocław, Poland, 2018 10. III International Scientific Conference «Microbiology and Immunology – the development outlook in the XXI century», Kyiv, Ukraine, 2018 11. 15th Congress of S.M. Vynogradskyi Ukrainian Society of Microbiologists, Odesa, Ukraine, 2017 12. 2nd Conference for Young Scientists (CYS-2017), the Joint Meeting of the 25th Annual Conference "Modern Aspects of Biochemistry and Biotechnology", Kyiv, Ukraine 13. International Conference of Young Scientists (CYS-2015) "Today's challenges in molecular and cell biology", September 21–25, 2015, Kyiv, Ukraine. 14. 21st Biennial Evergreen International Phage Meeting, August 2–7, 2015, Olympia, WA, Oral Presentation. 15. EMBO Conference on Viruses of Microbes III: Structure and function – from molecules to communities, July 14–18, 2014, Zurich, Switzerland. 16. 13th Congress of S.M. Vynogradskyi Ukrainian Society of Microbiologists, October 1–6, 2013, Yalta, AR Crimea, Ukraine.

Awards and Prizes	<p>11.2022 – Research grant by National Science Center of Poland: Miniatura 6 "Obtaining of recombinant exopolysaccharide depolymerases encoded by Erwinia amylovora phages and determination of their activity against fire blight" (Principal Investigator, Registration number 2022/06/X/NZ1/01690).</p> <p>11.2022 – Small Project Grant by U.S.-Ukraine Foundation Biotech Initiative for organizing an online educational event "Microbial Genomics Workshop", 25-27 November, 2022.</p> <p>07.2022 – Meeting attendance grant by Organizing Committee and Board of International Society of Viruses of Microbes for attending international conference "Viruses of Microbes: the latest conquests", Guimaraes, Portugal, 18-22 July 2022.</p> <p>07.2022 – Meeting attendance grant by Organizing Committee for attending IUBMB–FEBS–PABMB Congress 2022, Lisbon, Portugal 9-14 July, 2022.</p> <p>05.2022 – FEMS grant for participation in FEMS Summer School on Microbiology Education, Polychrono, Greece, 22-29 May, 2022.</p> <p>01.2021 – Grant at the Competition of research projects (R&D) of young scientists of the National Academy of Sciences (NAS) of Ukraine for conducting Research project "Polysaccharide-degrading enzymes of bacteriophages as promising tools for biological control of Erwinia amylovora, the causative agent of fire blight plant disease" (2021-2022).</p> <p>2016 – President of Ukraine Award for Young Scientists.</p> <p>2014 – Evergreen International Phage Biology Meeting Organizing Committee Meeting Attendance Award.</p> <p>2014 – FEMS Meeting Attendance Grant.</p>
Membership	<ul style="list-style-type: none"> • Federation of European Microbiological Societies • International Society for Viruses of Microbes • Ukrainian Biochemical Society • Ukrainian Society of Microbiologists • Vavilov Society of Geneticists and Breeders of Ukraine